Notice of Allowability	Application No.	Applicant(s)	
	10/680,896	ISHIGAMI ET AL.	
	Examiner	Art Unit	
	Natalie K. Walford	2879	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendment filed on 5/8/06</u> .			
2. The allowed claim(s) is/are <u>1-8 and 10-19</u> .			
3.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary e Paper No./Mail Date 8), 7. Examiner's Amendm 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	·

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DETAILED ACTION

Response to Amendment

The Amendment, filed on May 8, 2006, has been entered and acknowledged by the Examiner.

Claims 1-8 and 10-19 are pending in the instant application.

Allowable Subject Matter

Claims 1-8 and 10-19 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 1, specifically for the limitation of the discharge medium containing a halide, a rare gas, substantially disusing mercury and, the light irradiating form the metal vapor discharge lamp has near infrared wavelengths (750-1100 nm). The closest references of the Prior Art teach similar metal vapor discharge lamps, but irradiating in visible light wavelengths (Ishigami patents; '946, 109', and '289). Tsuda (JP 2003-257367) teaches a metal halide lamp irradiating with near infrared wavelengths, but does not contain a rare gas.

Regarding claims 2-5 and 13-19, claims 2-5 and 13-19 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 6, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 6, specifically for the limitation of the discharge medium containing a first halide, a rare gas, a rare earth metal, substantially disusing

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mercury, and a ratio of visible-radiation power to near-infrared radiation power falling within a range of 0.5:1 to 4.0:1. The closest references of the Prior Art teach similar metal vapor discharge lamps, not that ratio because they are irradiating more in visible light wavelengths than near infrared wavelengths (Ishigami patents; '946, 109', and '289).

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Regarding claims 7-8 and 10-12, claims 7-8 and 10-12 are allowable for the reasons given in claim 1 because of their dependency status from claim 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ishigami et al. (US 6,528,946) is cited to show a metal halide discharge lamp.

Ishigami et al. (US 6,873,109) is cited to show a metal halide discharge lamp.

Tsuda et al. (JP 2003-257367) is cited to show a metal halide lamp using mercury or another metal halide and irradiating in near-infrared wavelengths.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie K. Walford whose telephone number is (571)-272-6012. The examiner can normally be reached on Monday-Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Malan Hall

NIMESHKUMAR D. PATEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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